

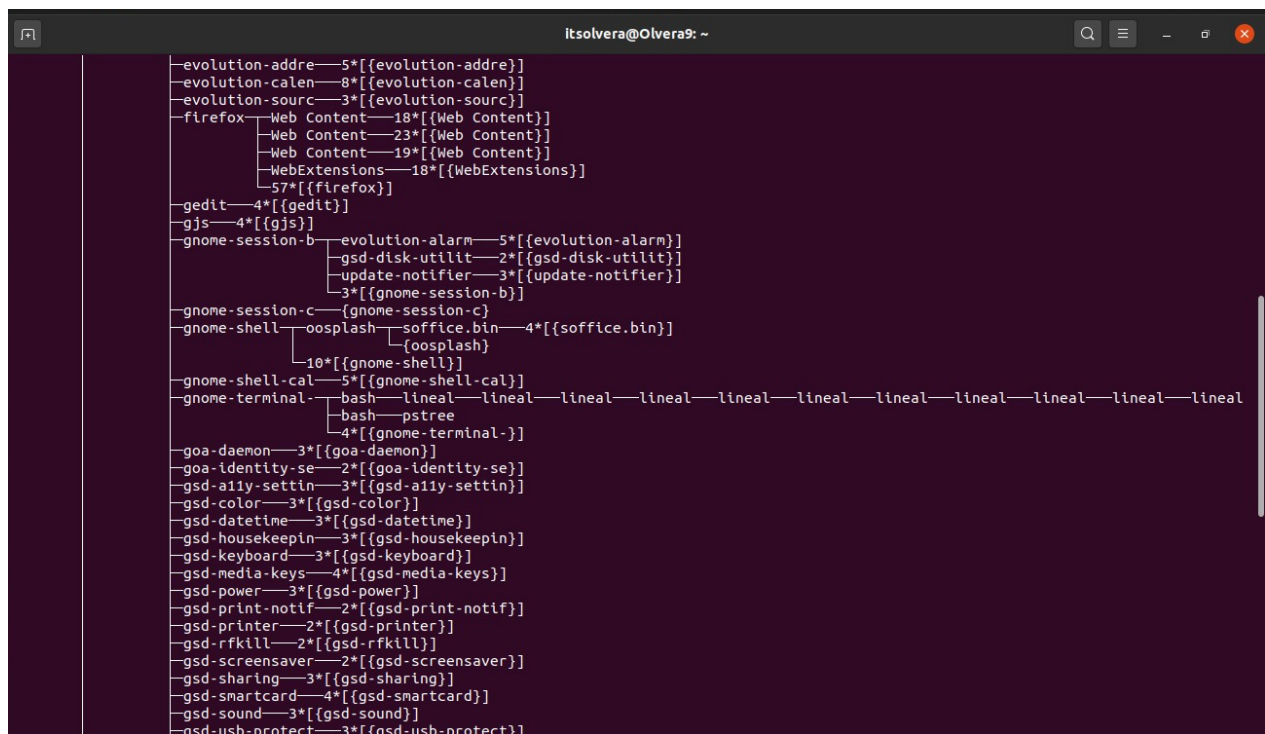
# Procesos Lineal, Abanico y Zapato

## Olvera Monroy Gonzalo

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### Lineal

```
1 #include <stdio.h>
2 #include <unistd.h>
3 #include <sys/types.h>
4
5 #define N 10
6
7 int main()
8 {
9     int tid, i;
10
11     for(i = 0; i < N; i++){
12         tid = fork();
13
14         if(tid != 0){
15             break;
16         }
17     }
18
19     printf("Mi valor de i es %d y mi pid es %d\n", i, getpid());
20
21     sleep(30);
22
23     return 0;
24 }
```



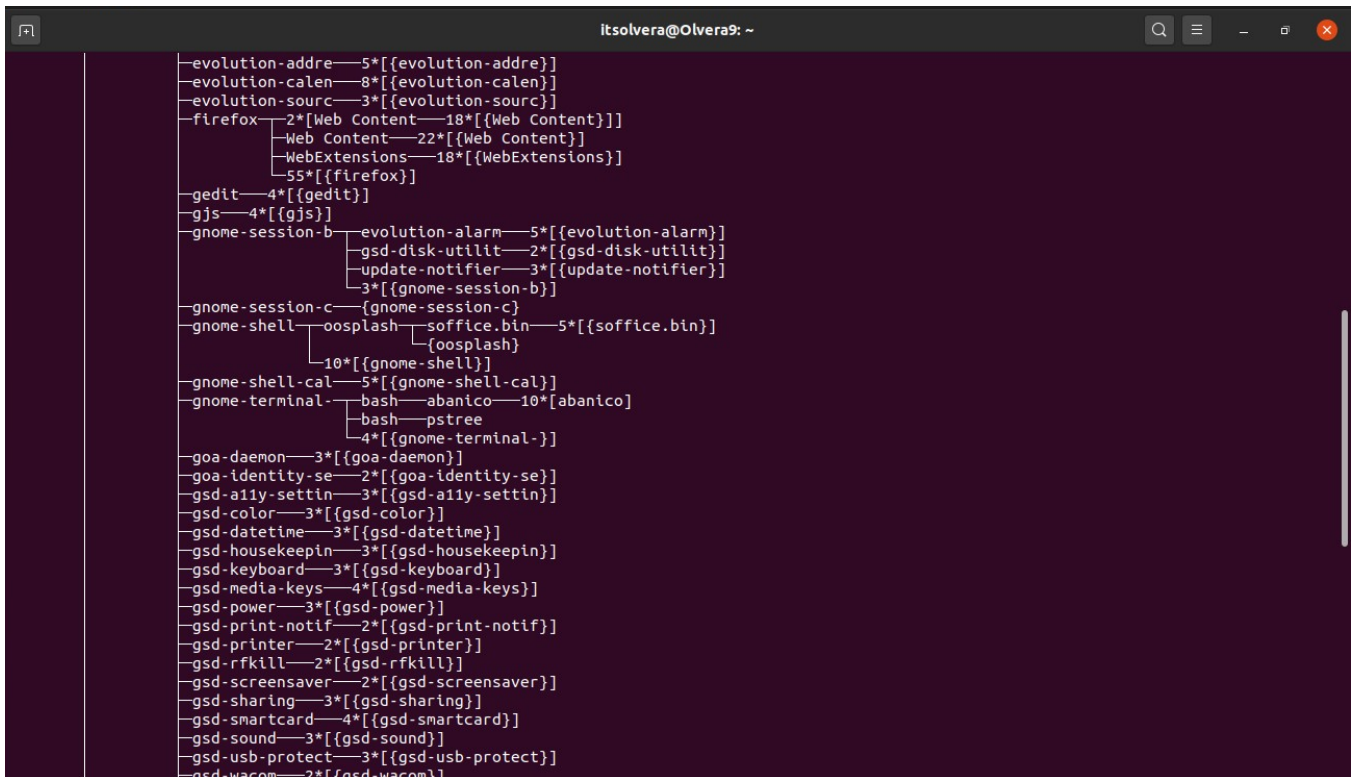
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## Abanico

```

1 #include <stdio.h>
2 #include <unistd.h>
3 #include <sys/types.h>
4
5 #define N 10
6
7 int main(){
8
9     int tid, i;
10
11     for(i = 0; i < N; i++){
12         tid = fork();
13
14         if(tid == 0){
15             break;
16         }
17     }
18
19     printf("Mi valor de i es %d y mi pid es %d\n", i, getpid());
20
21     sleep(30);
22
23     return 0;
24 }

```



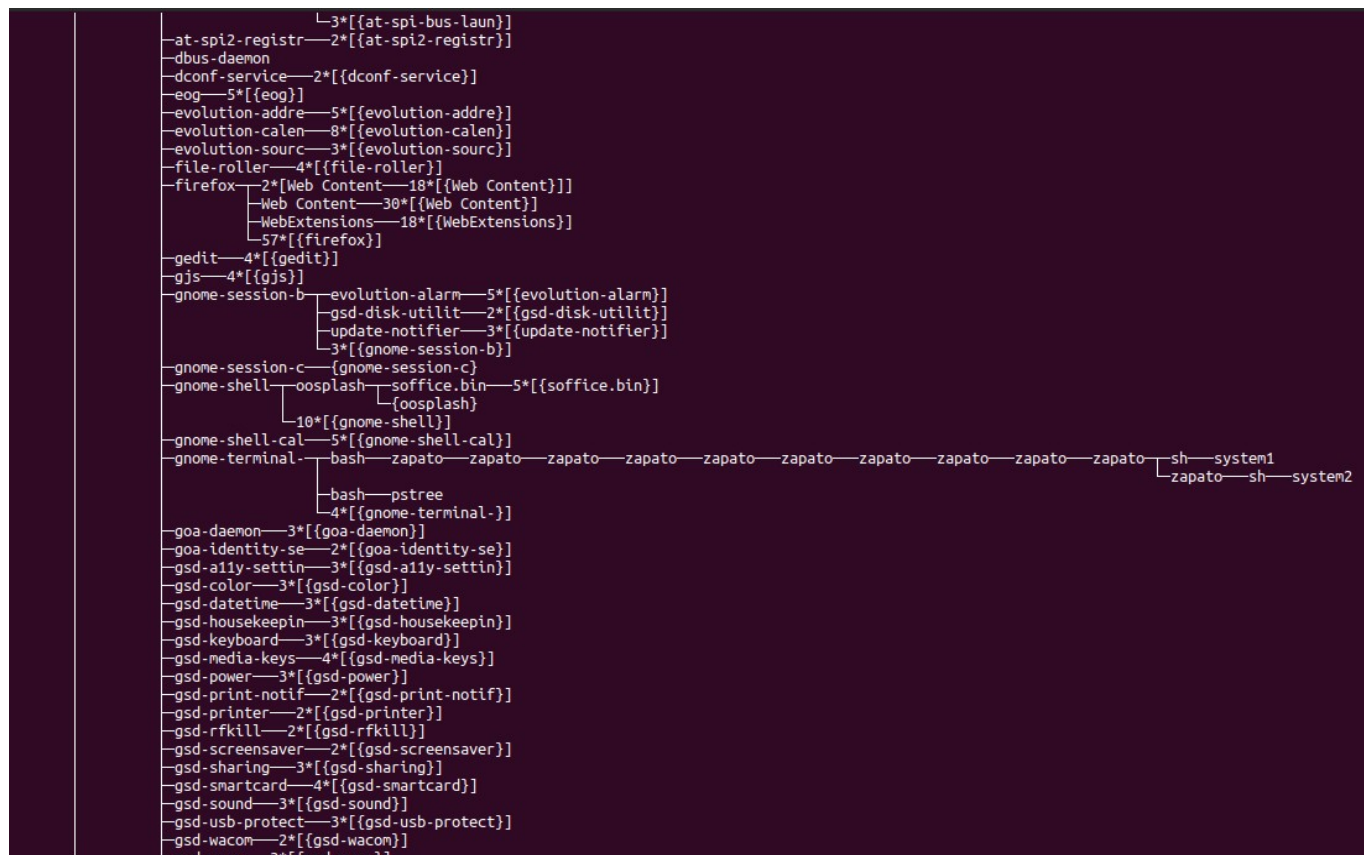
# Procesos Lineal, Abanico y Zapato

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### Zapato (system)

```
1 #include <stdio.h>
2 #include <unistd.h>
3 #include <sys/types.h>
4 #include <stdlib.h>
5
6 #define N 10
7
8 int main(){
9
10     int tid, i;
11
12     for(i = 0; i < N; i++){
13         tid = fork();
14
15         if(tid != 0){
16             break;
17         }
18     }
19
20     printf("Mi valor de i es %d, mi padre es %d y mi abuelo es %d \n", i, getpid(), getppid());
21
22     if(i == (N-1)){
23         system("./system1");
24     }
25
26     if(i == N){
27         system("./system2");
28     }
29
30
31     sleep(30);
32
33     return 0;
34 }
```



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## Zapato (exec)

```

1#include <stdio.h>
2#include <unistd.h>
3#include <sys/types.h>
4#include <stdlib.h>
5
6#define N 10
7
8int main(){
9    int tid, i;
10
11    for(i = 0; i < N; i++){
12        tid = fork();
13        if(tid != 0){
14            break;
15        }
16    }
17
18    printf("Mi valor de i es %d, mi padre es %d y mi abuelo es %d \n", i, getpid(), getppid());
19
20    if(i == (N-1)){
21        tid = fork();
22        if(tid == 0){
23            execl("./execl1", "Soy execl1", NULL);
24        }
25    }
26
27    if(i == N){
28        tid = fork();
29        if(tid == 0){
30            execl("./execl2", "Soy execl2", NULL);
31        }
32    }
33    sleep(30);
34    return 0;
35}

```

